

Amendments to the Claims:

This listing of claims will replace all prior versions and listings of claims in the application. Please amend the claims as follows:

Listing of the Claims:

1. (Currently Amended) A method for producing an iron oxide/iron oxyhydroxide-containing aminomethylated polystyrene carboxyl-bearing ion exchanger, characterized ~~in that~~ comprising:

a) ~~a bead-type carboxyl-containing ion exchanger is contacted in aqueous suspension with iron(III) salts or~~

~~a) —~~ contacting, in an aqueous suspension, an aminomethylated crosslinked polystyrene bead polymer is contacted in aqueous suspension with iron(III) salts and with chloroacetic acid; and

b) adding alkali metal hydroxides or alkaline earth metal hydroxides to the aqueous suspension thereby adjusting the pH of the suspension to a pHs in the range from 3 to 14 by adding alkali metal hydroxides or alkaline earth metal hydroxides and the resultant, whereby the iron oxide/iron oxyhydroxide-containing aminomethylated polystyrene ion exchanger is formed isolated by known methods,

wherein said iron oxide/iron oxyhydroxide-containing aminomethylated polystyrene ion exchanger is a non-carboxyl bearing ion exchanger.

2. (Currently Amended) An iron oxide/iron oxyhydroxide-containing aminomethylated polystyrene carboxyl-bearing ion exchanger formed obtainable by: ~~contacting~~

a) contacting, in an aqueous suspension, a bead-type carboxyl-containing ion exchanger in aqueous suspension with iron(III) salts or

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a) ~~an aminomethylated crosslinked polystyrene bead polymer, in aqueous suspension with iron(III) salts and with chloroacetic acid;~~ and

b) adding alkali metal hydroxides or alkaline earth metal hydroxides to the aqueous suspensions obtained from stages a) or a')

~~and setting a thereby adjusting the pH of the suspension to a pH in the range from 3 to 14, whereby the and also isolating the resultant iron oxide/iron oxyhydroxide-containing aminomethylated polystyrene ion exchanger is formed by known methods,~~

wherein said iron oxide/iron oxyhydroxide-containing aminomethylated polystyrene ion exchanger is a non-carboxyl bearing ion exchanger.

3. (Currently Amended) A process for adsorbing a heavy metal, comprising:

~~contacting~~The use of the iron oxide/iron oxyhydroxide-containing aminomethylated polystyrene ion exchangers for adsorbing heavy metals of Claim 2 with the heavy metal, preferably arsenic, cobalt, nickel, lead, zinc, cadmium, copper.

4. (Currently Amended) An apparatus, preferably filtration unit, comprising: the iron oxide/iron oxyhydroxide-containing aminomethylated polystyrene ion exchanger as claimed in eClaim 2, characterized in that it is used for removing heavy metals, preferably arsenic, from wherein aqueous media or gas is brought into contact gases with said iron oxide/iron oxyhydroxide-containing aminomethylated polystyrene ion exchanger.

5. (Currently Amended) The use of the iron oxide/iron oxyhydroxide-containing ion exchanger as claimed in process according to eClaim 3, characterized in that it is wherein the heavy metal is an aqueous media or gas pollutant, said process further comprising used in combination with contacting the aqueous media or gas with at least one other adsorbents.

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6. (Currently Amended) ~~The apparatus as claimed in~~Claim 4,
~~characterized in that it comprises~~other further comprising at least one adsorbents in
addition to the iron oxide/iron oxyhydroxide-containing aminomethylated polystyrene ion
exchanger, wherein said aqueous media or gas is brought into contact with said
adsorbent.
7. (Currently Amended) ~~The use of the apparatus as claimed in claims 4 or 6 in A~~
~~process for purifying the liquid media of a gas sanitary and drinking water facilities~~
facility, comprising: passing said liquid media through the apparatus according to Claim
4 thereby contacting the aqueous media with the iron oxide/iron oxyhydroxide-
containing aminomethylated polystyrene ion exchanger.
8. (New) The method according to Claim 1, wherein said iron oxide/iron
oxyhydroxide-containing aminomethylated polystyrene ion exchanger is a mono-
disperse ion exchanger.
9. (New) The iron oxide/iron oxyhydroxide-containing aminomethylated polystyrene
ion exchanger according to Claim 2, wherein said iron oxide/iron oxyhydroxide-
containing aminomethylated polystyrene ion exchanger is a mono-disperse ion
exchanger.
10. (New) The process according to Claim 3, wherein said heavy metal is chosen
from arsenic, cobalt, nickel, lead, zinc, cadmium, and copper.
11. (New) The process according to Claim 3, wherein the heavy metal is contained
in an aqueous media or gas, said process further comprising contacting the aqueous
media or gas with at least one other adsorbent.
12. (New) The process according to Claim 3, wherein said iron oxide/iron
oxyhydroxide-containing aminomethylated polystyrene ion exchanger is a mono-
disperse ion exchanger.

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13. (New) The apparatus according to Claim 4, wherein said iron oxide/iron oxyhydroxide-containing aminomethylated polystyrene ion exchanger is a mono-disperse ion exchanger.

14. (New) An apparatus comprising:

the iron oxide/iron oxyhydroxide-containing aminomethylated polystyrene ion exchanger as claimed in Claim 2; and

a means for bringing aqueous media or gas into contact with said iron oxide/iron oxyhydroxide-containing aminomethylated polystyrene ion exchanger.

15. (New) The apparatus according to Claim 14, wherein said Iron oxide/iron oxyhydroxide-containing aminomethylated polystyrene ion exchanger is a mono-disperse ion exchanger.

16. (New) The apparatus according to Claim 14, further comprising at least one adsorbent in addition to the iron oxide/iron oxyhydroxide-containing aminomethylated polystyrene ion exchanger, wherein said aqueous media or gas is brought into contact with said adsorbent.

17. (New) A process for purifying the liquid media or gas of a drinking water facility, comprising: passing said liquid media through the apparatus according to Claim 14 thereby contacting the aqueous media with the iron oxide/iron oxyhydroxide-containing aminomethylated polystyrene ion exchanger.